## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Previously Presented) An ultra-light sound insulator, comprising:

a sound absorption layer that is light in weight and has a thickness in a range of 1 to 100 mm, a density in a range of 0.01 to 0.2 g/cm<sup>3</sup>; and

an air-impermeable resonance layer in the form of a foam or a film that is bonded to said sound absorption layer via an adhesive layer and has an area-weight of not greater than  $600~\text{g/m}^2$ ,

wherein an adhesion strength of said adhesive layer against said sound absorption layer and said air-impermeable resonance layer is set in a range of 1 to 20 N/25 mm under conditions of a peel angle of 180 degrees and a peel width of 25 mm,

an adhesion area of said adhesive layer is 50 to 100% of a whole interface between said sound absorption layer and said air-impermeable resonance layer so that resonance due to a total mass of said air-impermeable resonance layer and said sound absorption layer occurs in addition to membrane resonance of said air-impermeable resonance layer, and

said sound absorption layer is adapted to face to a vehicle body panel, while said air-impermeable resonance layer is adapted to face to a vehicle interior.

- 2. (Withdrawn) An ultra-light sound insulator in accordance with claim 1, wherein said sound absorption layer has a multi-layer structure of a high-density sound absorption layer and a low-density sound absorption layer.
- 3. (Withdrawn) An ultra-light sound insulator in accordance with claim 2, wherein said high-density sound absorption layer has a density in a range of 0.05 to 0.20 g/cm<sup>3</sup> and a thickness in a range of 2 to 70 mm, and said low-density sound absorption layer has a density in a range of 0.01 to 0.10 g/cm<sup>3</sup> and a thickness in a range of 2 to 70 mm.
- 4. (Withdrawn) An ultra-light sound insulator in accordance with claim 2, wherein said high-density sound absorption layer has an initial compression repulsive force in a range of 30 to 600 N,

said low-density sound absorption layer has an initial compression repulsive force in a range of 5 to 300 N, and

said initial compression repulsive force of said high-density sound absorption layer is at least 1.2 to 40 times said initial compression repulsive force of said low-density sound absorption layer and said high-density sound absorption layer has a thickness occupying 20 to 80% of said thickness of said sound absorption layer.

5. (Original) An ultra-light sound insulator in accordance with claim 1, wherein said sound absorption layer has a mono-layer structure and has a

density in a range of 0.02 to 0.20 g/cm<sup>3</sup> and a thickness in a range of 2 to 70 mm.

- 6. (Previously Presented) An ultra-light sound insulator in accordance with claim 5, wherein said sound absorption layer has an initial compression repulsive force in a range of 2 to 200 N.
- 7. (Withdrawn) An ultra-light sound insulator in accordance with claim 1, said ultra-light sound insulator further comprising a second sound absorption layer bonded to the other face of said air-impermeable resonance layer, which is adapted to face to said vehicle interior,

said second sound absorption layer having a density in a range of 0.01 to 0.2 g/cm<sup>3</sup> and a thickness in a range of 1 to 20 mm.

- 8. (Withdrawn) An ultra-light sound insulator in accordance with claim7, wherein said second sound absorption layer has a mono-layer structure.
- 9. (Withdrawn) An ultra-light sound insulator in accordance claim 8, wherein said second sound absorption layer has a multi-layer structure of a lower layer and an upper layer,

said lower layer of said second sound absorption layer being bonded to said air-impermeable resonance layer or otherwise said upper layer and said lower layer of said second sound absorption layer being laid one upon said other by means of a mechanical boring force.

- 10. (Withdrawn and Currently Amended) An ultra-light sound insulator in accordance with claim 1, wherein said air-impermeable resonance layer is either of a foam having a thickness in a range of 1 to 7 mm.
- 11. (Withdrawn) An ultra-light sound insulator in accordance with claim 1, wherein said air-impermeable resonance layer is a foam having a thickness in a range of 2 to 3 mm.
- 12. (Previously Presented) An ultra-light sound insulator in accordance with claim 1, wherein said air-impermeable resonance layer is a film having a thickness in a range of 10 to 600  $\mu$ m.
- 13. (Previously Presented) An ultra-light sound insulator in accordance with claim 1, wherein said air-impermeable resonance layer is a film having a thickness in a range of 20 to 300  $\mu m$ .
- 14. (Previously Presented) An ultra-light sound insulator in accordance with claim 1, wherein said sound absorption layer a density in a range of 0.03 to 0.08 g/cm<sup>3</sup>.
- 15. (Previously Presented) An ultra-light sound insulator in accordance with claim 1, wherein said air-impermeable resonance layer has an areaweight of not greater than 300 g/m<sup>2</sup>.

- 16. (Previously Presented) An ultra-light sound insulator in accordance with claim 1, wherein said adhesion strength of said adhesive layer against said sound absorption layer and said air-impermeable resonance layer is set in a range of 3 to 10 N/25 mm under conditions of a peel angle of 180 degrees and a peel width of 25 mm.
- 17. (Previously Presented) An ultra-light sound insulator in accordance with claim 1, wherein said adhesion area of said adhesive layer is 80 to 100% of a whole interface between said sound absorption layer and said air-impermeable resonance layer.
- 18. (Previously Presented) An ultra-light sound insulator in accordance with claim 1, wherein said sound absorption layer a density in a range of 0.03 to 0.08 g/cm<sup>3</sup>, said air-impermeable resonance layer has an area-weight of not greater than 300 g/m<sup>2</sup>, said adhesion strength of said adhesive layer against said sound absorption layer and said air-impermeable resonance layer is set in a range of 3 to 10 N/25 mm under conditions of a peel angle of 180 degrees and a peel width of 25 mm and said adhesion area of said adhesive layer is 80 to 100% of a whole interface between said sound absorption layer and said air-impermeable resonance layer.
- 19. (Withdrawn) An ultra-light sound insulator in accordance with claim 2, wherein said high-density sound absorption layer has an initial compression repulsive force in a range of 50 to 300 N,

said low-density sound absorption layer has an initial compression repulsive force in a range of 10 to 100N, and

said initial compression repulsive force of said high-density sound absorption layer is at least 1.5 to 5 times said initial compression repulsive force of said low-density sound absorption layer and said high-density sound absorption layer has a thickness occupying 40 to 60% of said thickness of said sound absorption layer.

- 20. (Previously Presented) An ultra-light sound insulator in accordance with claim 5, wherein said sound absorption layer has an initial compression repulsive force in a range of 20 to 100 N.
- 21. (Previously Presented) An ultra-light sound insulator in accordance with claim 1, said ultra-light sound insulator further comprising a second sound absorption layer bonded to the other face of said air-impermeable resonance layer, which is adapted to face to said vehicle interior,

said second sound absorption layer having a density in a range of 0.05 to 0.15 g/cm<sup>3</sup> and a thickness in a range of 4 to 10 mm.

22. (Previously Presented) An ultra-light sound insulator in accordance with claim 21, wherein said second sound absorption layer has a mono-layer structure.

- 23. (Withdrawn) An ultra-light sound insulator in accordance with claim21, wherein said second sound absorption layer has a multi-layer structure.
- 24. (Withdrawn) An ultra-light sound insulator in accordance claim 23, wherein said second sound absorption layer has a multi-layer structure of a lower layer and an upper layer,

said lower layer of said second sound absorption layer being bonded to said air-impermeable resonance layer or otherwise said upper layer and said lower layer of said second sound absorption layer being laid one upon said other by means of a mechanical boring force.

- 25. (Withdrawn) An ultra-light sound insulator in accordance with claim 1, wherein said second sound absorption layer has a multi-layer structure.
- 26. (Withdrawn) An ultra-light sound insulator in accordance claim 25, wherein said second sound absorption layer has a multi-layer structure of a lower layer and an upper layer,

said lower layer of said second sound absorption layer being bonded to said air-impermeable resonance layer or otherwise said upper layer and said lower layer of said second sound absorption layer being laid one upon said other by means of a mechanical boring force.